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By: Marius Oiaga, Technology News Editor



Windows Vista PC
Concept
Microsoft

[The Windows 7 Troubleshooting Platform](#)

Windows Vista could have used this level of advanced troubleshooting

Microsoft has kicked the troubleshooting capabilities of Windows to the next level with the introduction of Windows 7. And as early as [Windows 7 pre-Beta Milestone 3 Build 6801](#), the Redmond company is offering a taste of the full capabilities of the operating system, capabilities that could have been life savers for Windows Vista users when the RTM build initially hit the shelves. According to the software giant, Windows 7 comes to the table with a comprehensive and extensible Troubleshooting Platform capable of identifying and resolving a wide array of problems on its own.

This mainly because the platform has a PowerShell-based mechanism at its core. Microsoft indicated that the platform was in fact a collection of components. The troubleshooting package, engine, and wizard all combine in order to deal with potential problems that the end users might come across.

"The troubleshooting pack is a collection of PowerShell scripts and relevant metadata. The troubleshooting engine launches a PowerShell runtime to execute a troubleshooting pack, and exposes a set of interfaces to control troubleshooting pack execution," Microsoft [revealed](#). "The troubleshooting wizard provides a consistent experience across troubleshooting packs, communicating with the troubleshooting engine to troubleshoot and resolve problems that are specified in a troubleshooting pack."

As you can very well see from the image on the left, the Troubleshooting Platform is designed to deal with a range of issues spanning from the programs running on top of Windows 7 to those affecting devices, networking, printing, display, sound, performance and the Windows operating system itself.

"The Troubleshooting Platform seamlessly integrates with the Windows 7 PC Solution Center, enabling other applications to execute diagnostics in a similar manner as part of their PC management regimen. The Troubleshooting Platform is configurable by IT professionals through Group Policy for use within the enterprise, and a Windows Troubleshooting Toolkit that allows developers to author troubleshooting packs is also available," Microsoft added.